CONTENTS

Introduction	Presentation of the *EasyCoder 601 E*	3
Get to Know Your Printer	Front View	4
	Rear View	4
	Paper Stock Compartment	5
Paper Load	Tear-Off	6
	Cut-Off	9
	Peel-Off	12
	External Supply	15
Ribbon Load	Loading Instructions	16
	Ribbon Width Adjustment	18
Maintenance	Printhead Cleaning	19
	External Cleaning	21
	Printhead Replacement	22
	Troubleshooting	23

UBI EasyCoder 601 E
User's Manual
Edition 2, December 1995
Article No. 1-960387-01

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United States of America

WARNING:
This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

DOC Notice
Canada

Canadian Dept. of Communication
REGULATIONS COMPLIANCE
(DOC-A)

This digital apparatus does not exceed the class A limits for radio noise emissions from a digital apparatus as set out in the radio interference regulations of the Canadian Department of Communication.

* * *

Ministère des Communications du Canada
CONFORMITE DE REGLEMENTS
(DOC-A)

Le présent appareil numérique n´émet pas de bruits radio-électriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le règlement sur brouillage radioélectrique édicté par le Ministère des Communications du Canada.

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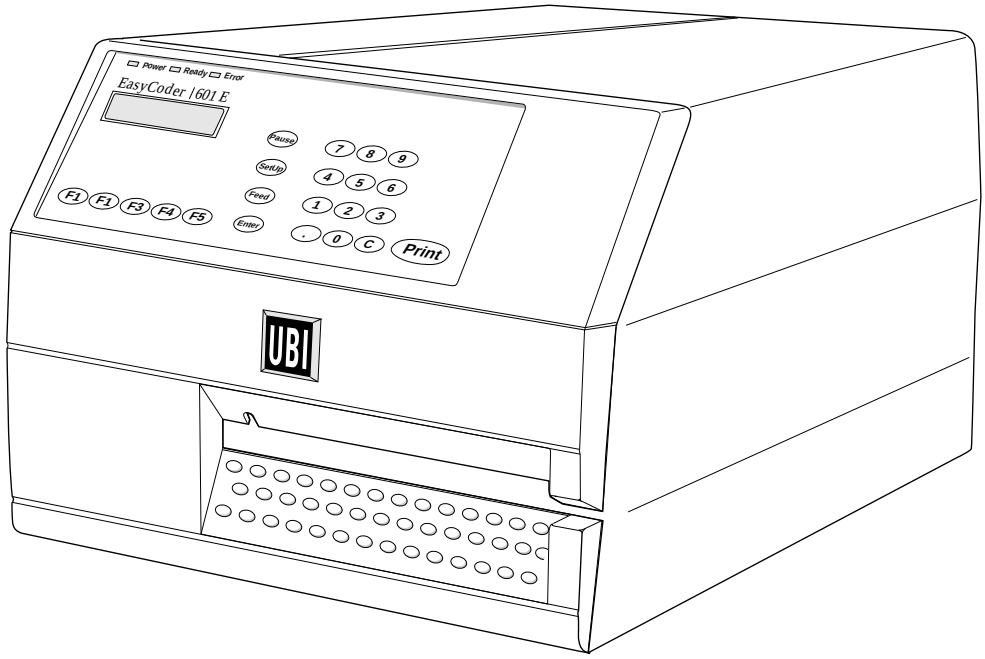
Reparaturen oder sonstige Eingriffe, die sich nicht auf normale Bedienung der Maschine beziehen, dürfen ausschließlich nur von einem **ausgebildeten, zuständigen Fachmann** vorgenommen werden.

INTRODUCTION



The *EasyCoder 601 E* is a modular multipurpose thermal transfer/direct thermal printer for wide labels, tickets, tags or strip. The print width is 160 mm (6.3") and the printhead density is 8 dots per mm (203.2 dots per inch).

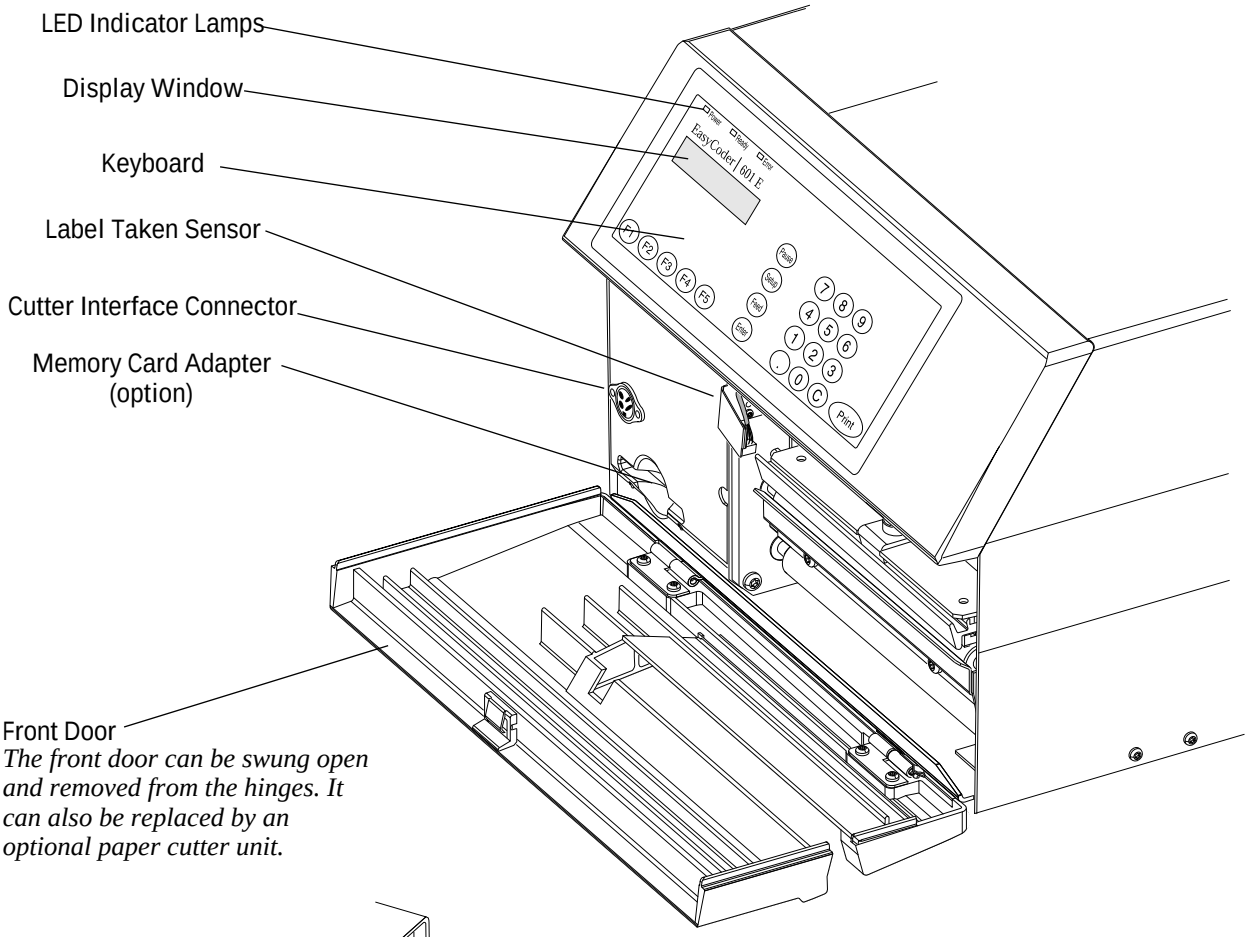
As standard, the *EasyCoder 601 E* is provided with facilities for peel-off operation, a real-time clock and a label-taken sensor. A large number options in regard of media handling and computer connection makes this printer highly flexible.

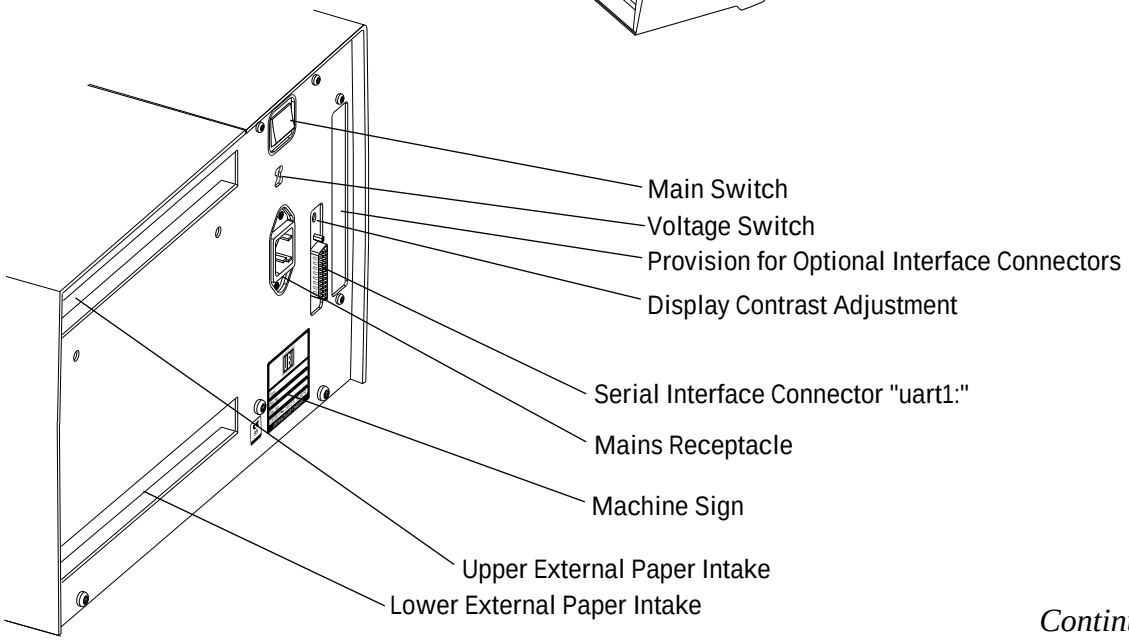
The *EasyCoder 601 E* is fitted with a software package that can handle *TrueType* and *Speedo* fonts. The 22-key setup keyboard and the built-in *UBI Shell* startup program makes the printer very suitable for installations, where you want to switch between different application programs, such as the *UBI LabelShop* label-editing program for *Windows*, the *UBI Windows Driver*, or the *UBI Macintosh Driver*. You can also edit label layouts and add variable data by means of the *UBI Direct Protocol*, or create your own programs in the built-in *UBI Fingerprint* programming language. Comprehensive information on installation, setup, paper, transfer ribbons, options and computer connection can be found in the *Technical Manual.*

The following manuals may be of interest to the operator or programmer:

- *UBI EasyCoder 601, Operator's Guide*
- *UBI Shell Enhanced, Startup Manual*
- *UBI EasyCoder 601, Technical Manual*
- *UBI Direct Protocol, Programmer's Guide*
- *UBI Fingerprint, Programmer's Guide*
- *UBI Fingerprint, Reference Manual*
- *UBI LabelShop, Operator's Manual*
- *UBI Windows Driver, Installation Instructions*
- *UBI Macintosh Driver, Installation Instructions*

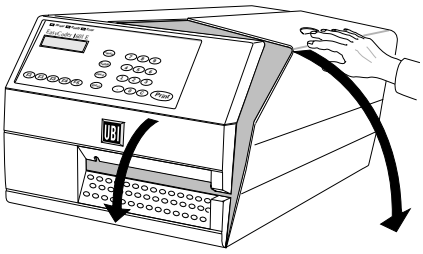
GET TO KNOW YOUR PRINTER


LED Indicator Lamps
Display Window
Keyboard
Label Taken Sensor
Cutter Interface Connector
Memory Card Adapter (option)
Front Door
The front door can be swung open and removed from the hinges. It can also be replaced by an optional paper cutter unit.

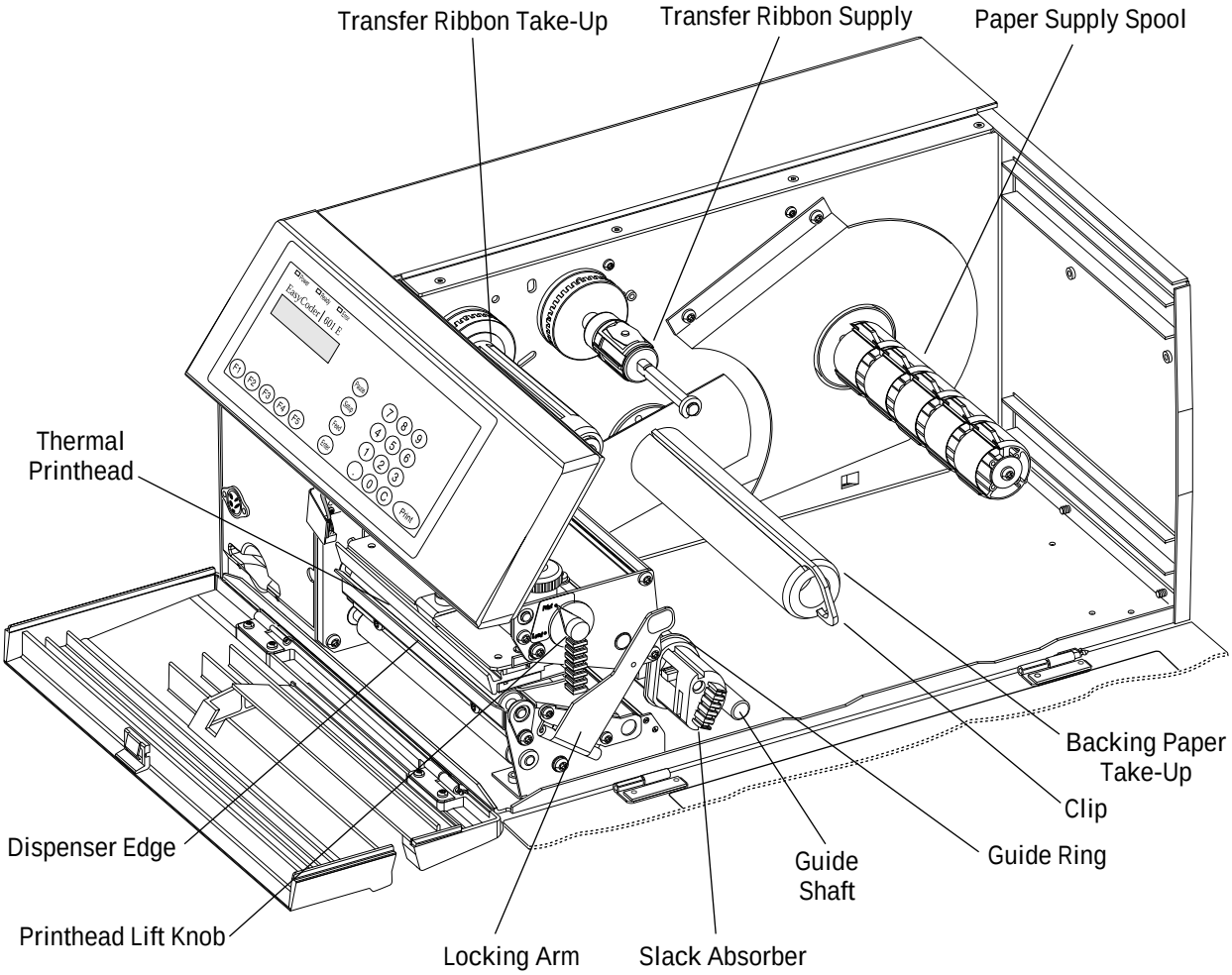


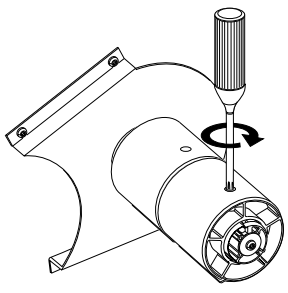
Continued!

GET TO KNOW YOUR PRINTER, cont'd.



The paper stock compartment becomes accessible when the right-hand and front doors are swung open. Although the printer is operable when the doors are left opened or completely removed, you are strongly recommended to keep them closed during normal operation, so as to prevent the printer mechanism from being exposed to dust.



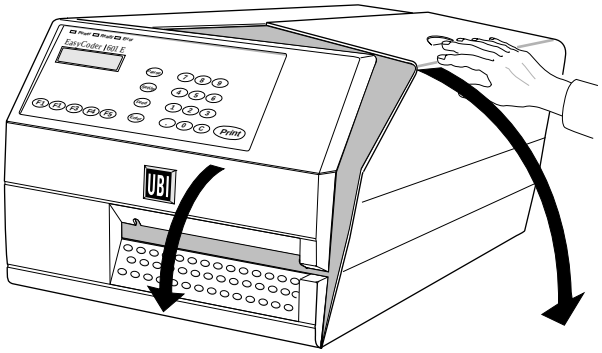


Two adapters for 76 mm (3") paper roll cores are included in the delivery and can be fitted on the paper supply spool.

Lock each adapter by means of the screw, making sure that the screw hits the evenly rounded plastic surface, rather than the leaf spring or the cam.

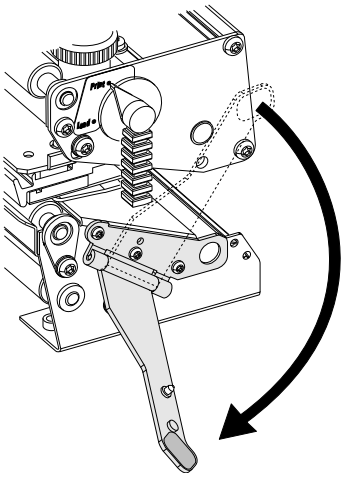
PAPER LOAD – TEAR OFF

1



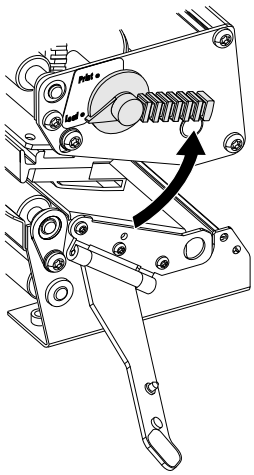
Open the front and right-hand doors.

2



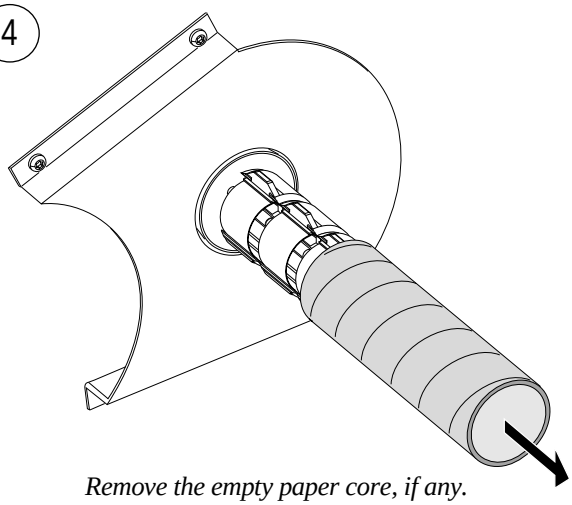
Fold the locking handle downward/outward.

3



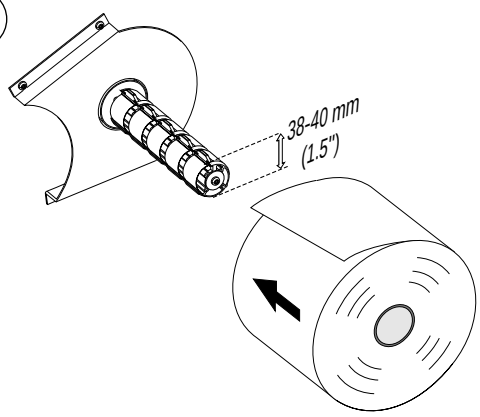
Turn the printhead lift knob to "Load" position.

4



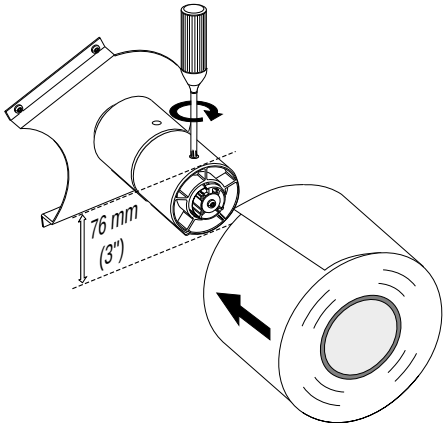
Remove the empty paper core, if any.

5a



Fit a new paper roll on the paper supply spool and push the roll inwards as far as it will go.

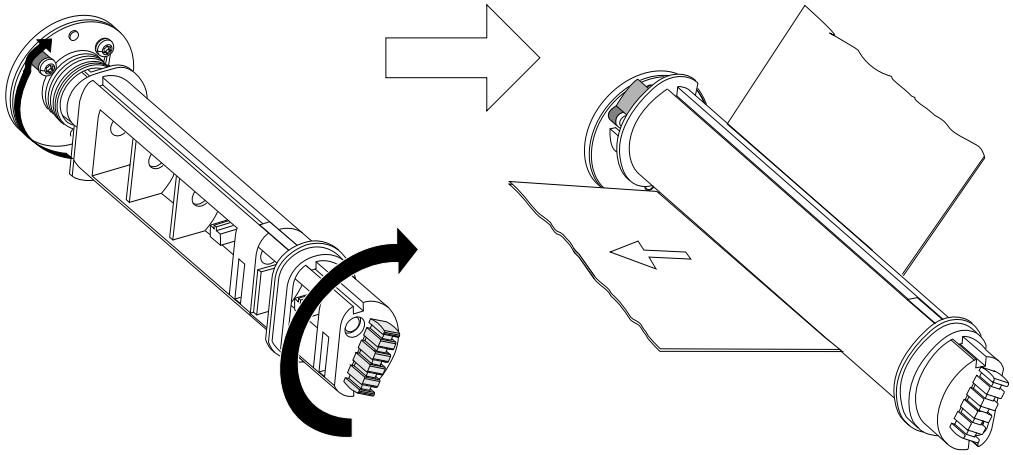
5b



In case of paper roll with a 76.2 mm (3 inches) core, first fit the two adapters on the paper supply spool.

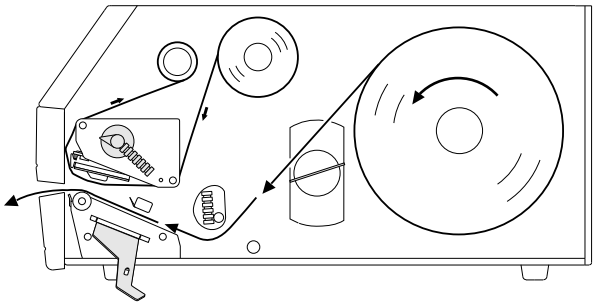
PAPER LOAD – TEAR OFF, cont'd.

6



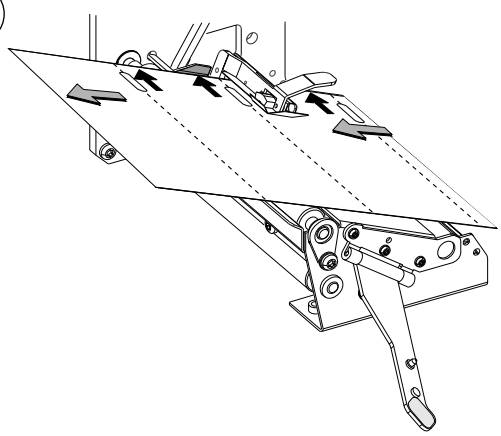
Rotate the label slack absorber 180˚ clockwise to open position (snap-lock). Then thread the paper underneath the slack absorber and under the guide plate of the label stop sensor.

7



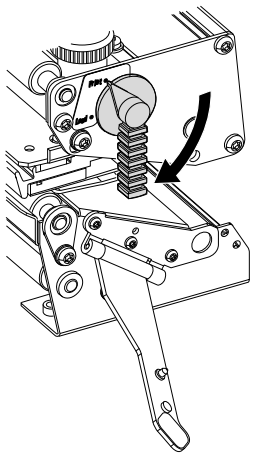
This diagram shows the path of the paper web.

8



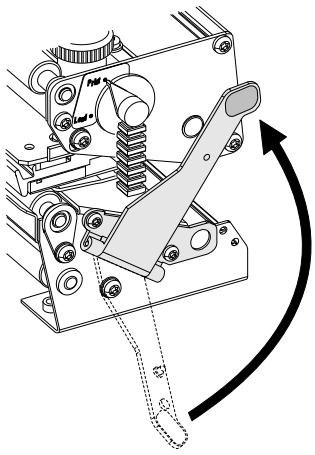
Push the paper inwards as far as it will go.

9



Turn the printhead lift knob to "Print" position.

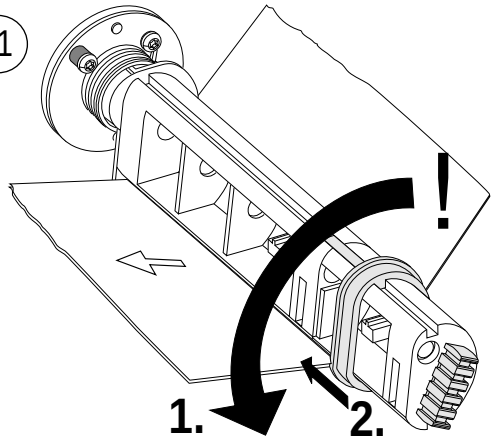
10



Return the locking handle to closed position.

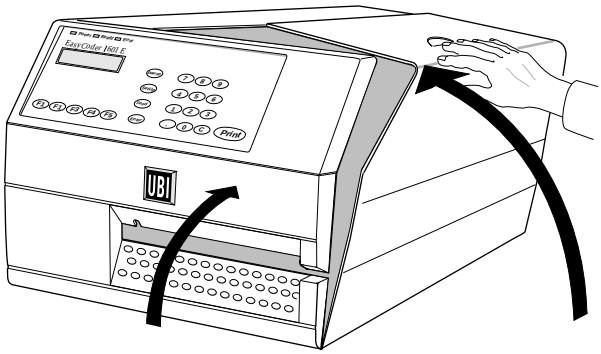
PAPER LOAD – TEAR OFF, cont'd.

11



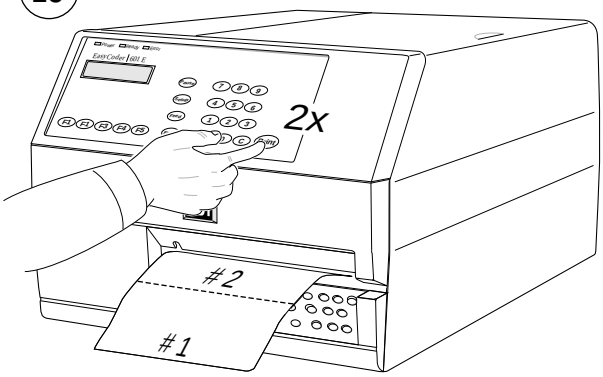
Release the slack absorber (1). Adjust the green guide ring so the paper is guided with a minimum of play (2).

12



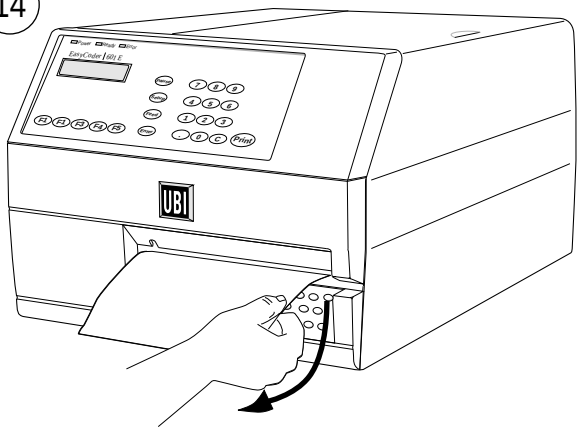
Close the front and side doors.

13



*Feed out two blank copies by pressing the <**Print**> key twice.*

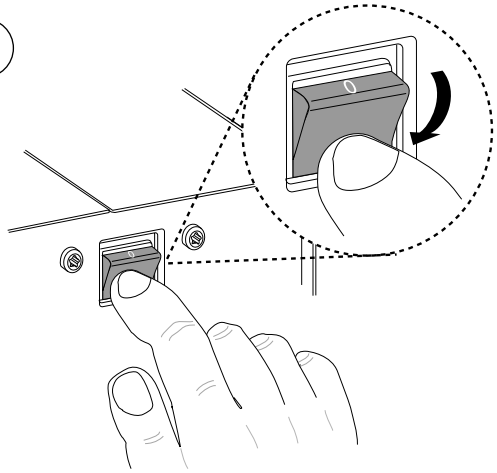
14



*To tear off the paper, pull it **downwards**.*

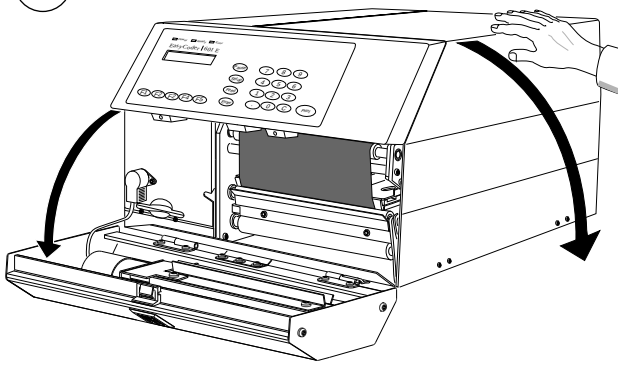
PAPER LOAD – CUT OFF

1



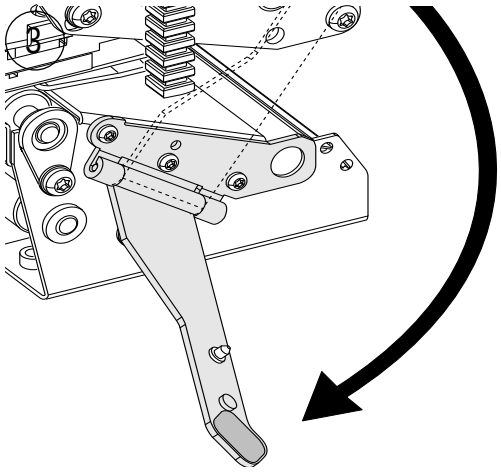
Turn off the power using the switch on the rear plate.

2



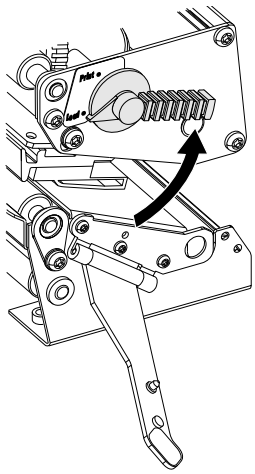
Open the optional cutter unit and the right-hand door.

3



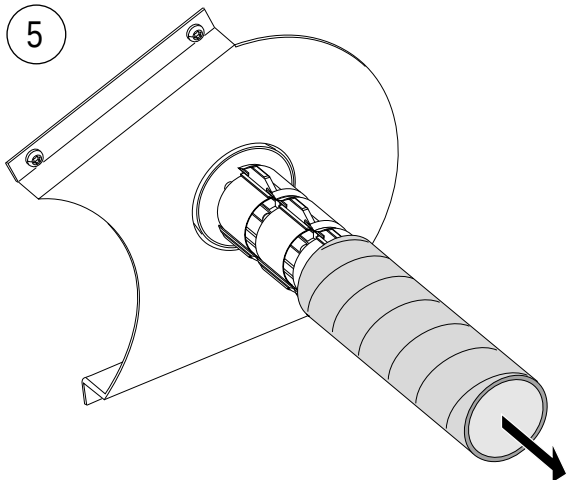
Fold the locking handle downward/outward.

4



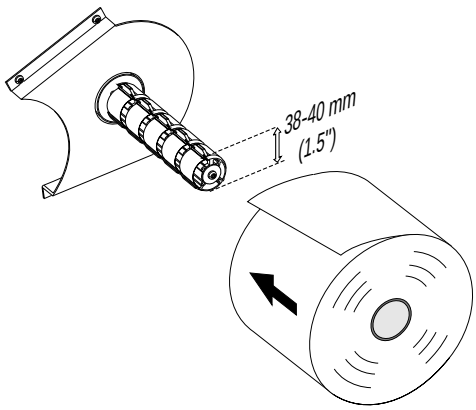
Turn the printhead lift knob to "Load" position.

5



Remove the empty paper core, if any.

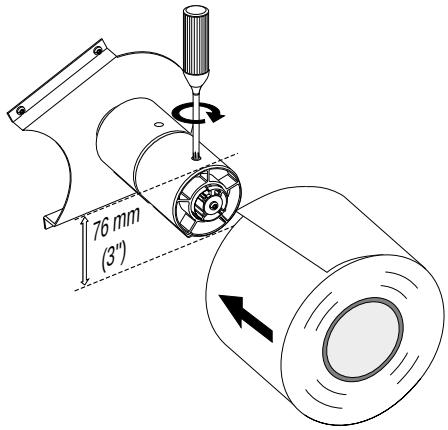
6a



Fit a new paper roll on the paper supply spool and push the roll inwards as far as it will go.

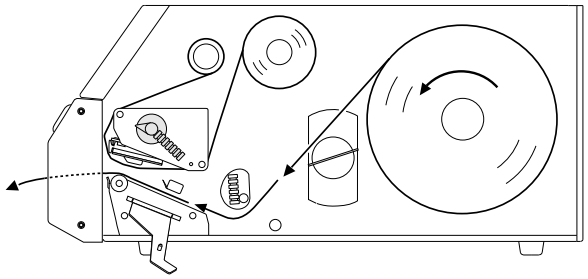
PAPER LOAD – CUT OFF, cont'd.

6b



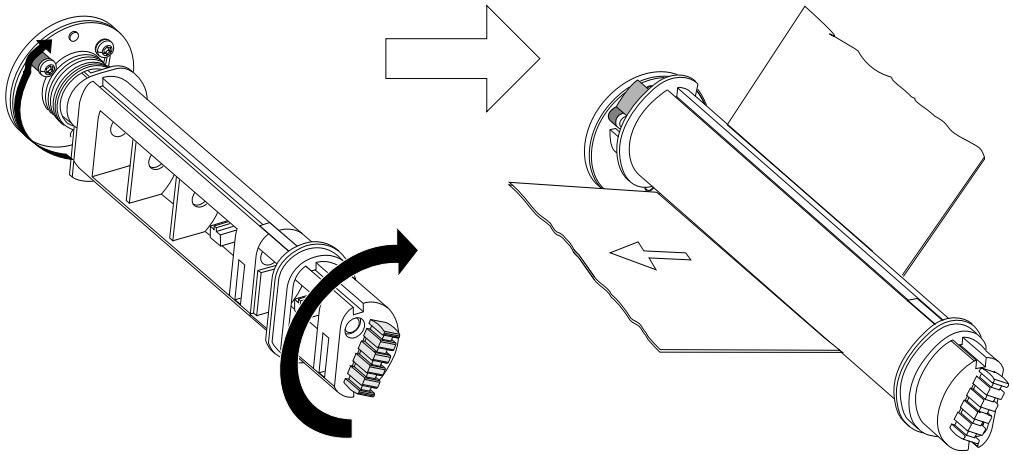
In case of paper roll with a 76.2 mm (3 inches) core, first fit the two adapters on the paper supply spool.

7



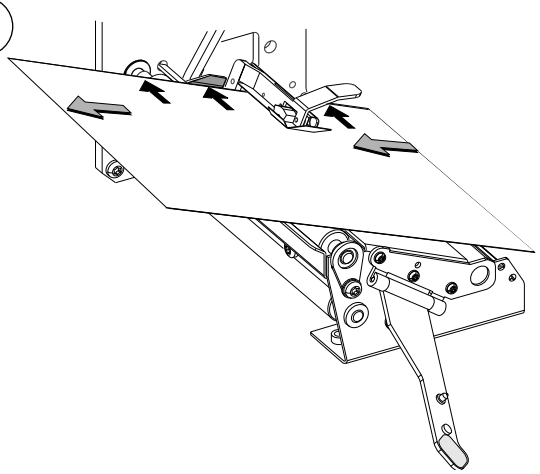
This diagram shows the path of the paper web.

8



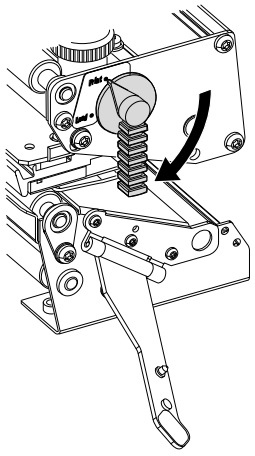
Rotate the label slack absorber 180˚ clockwise to open position (snap-lock). Then thread the paper underneath the slack absorber and under the guide plate of the label stop sensor.

9



Push the paper inwards as far as it will go.

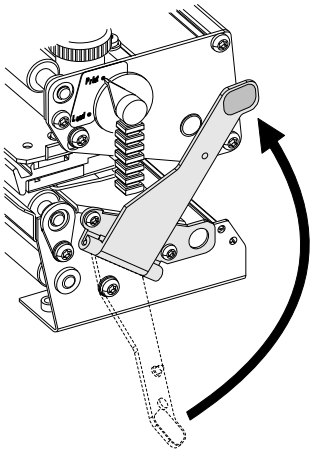
10



Turn the printhead lift knob to "Print" position.

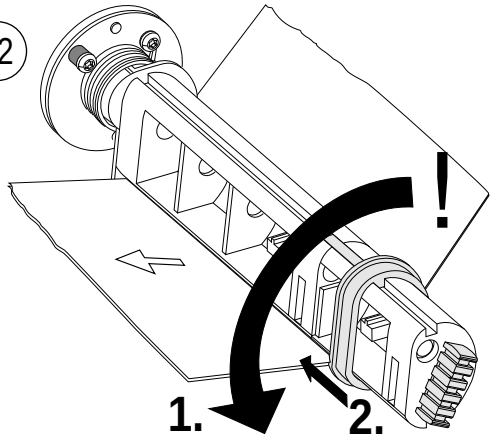
PAPER LOAD – CUT OFF, cont'd.

11



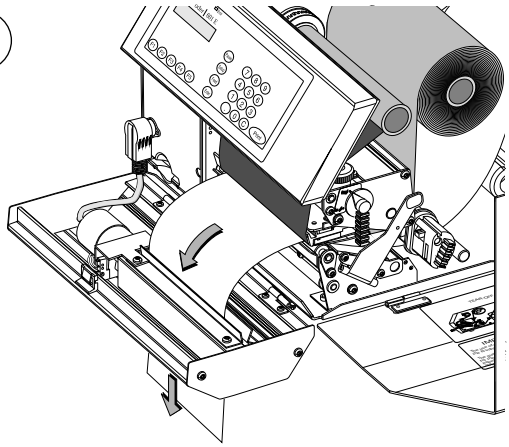
Return the locking handle to closed position.

12



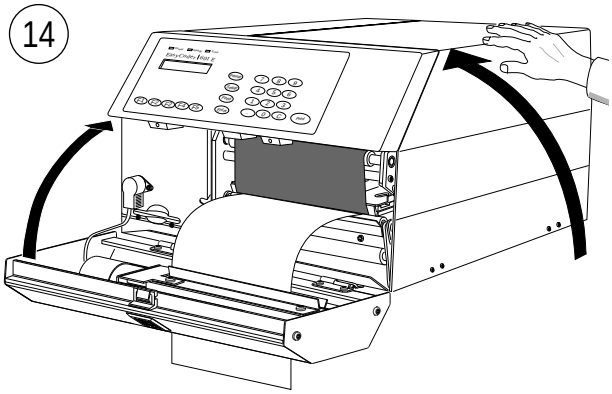
Release the slack absorber (1). Adjust the green guide ring so the paper is guided with a minimum of play (2).

13



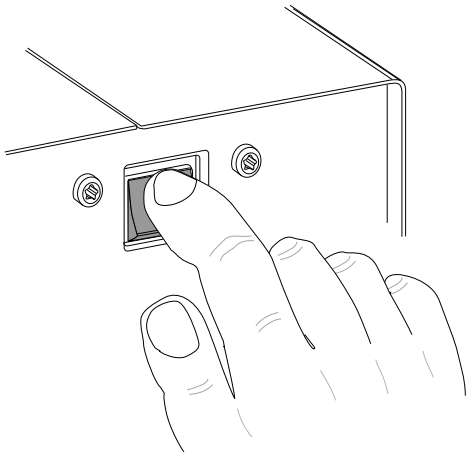
Thread the paper through the cutter between the two guide plates.

14



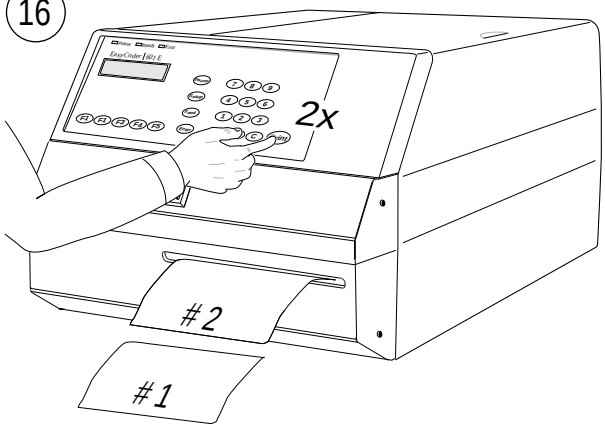
Close the cutter unit while pulling at the end of the paper. Close the right-hand door.

15



Turn on the power using the switch on the rear plate.

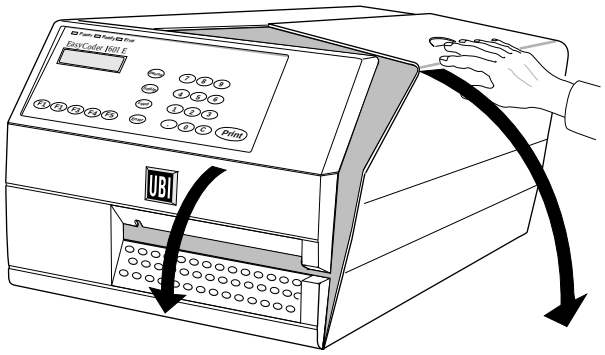
16



*Feed out and cut two blank copies by pressing the <**Print**> key twice.*

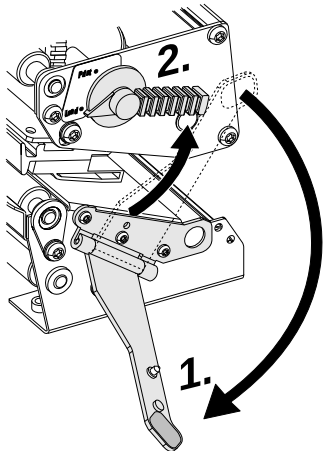
PAPER LOAD – PEEL OFF

1



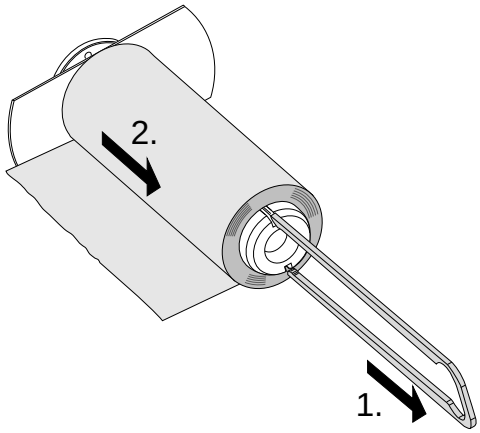
Open the front and right-hand doors

2



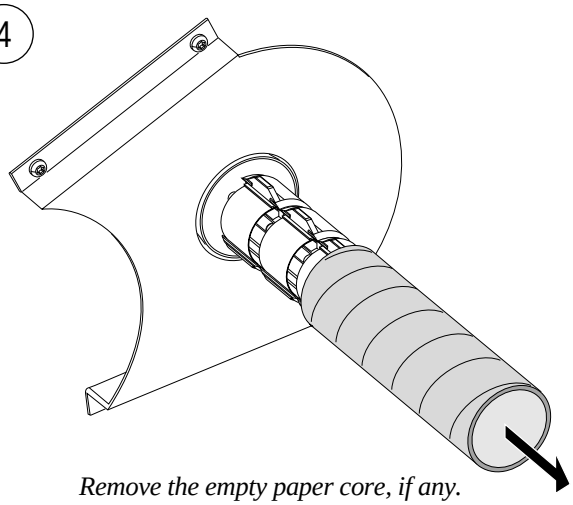
Fold the locking handle downward/outward (1).
Then turn the printhead lift knob to "Load" position (2).

3



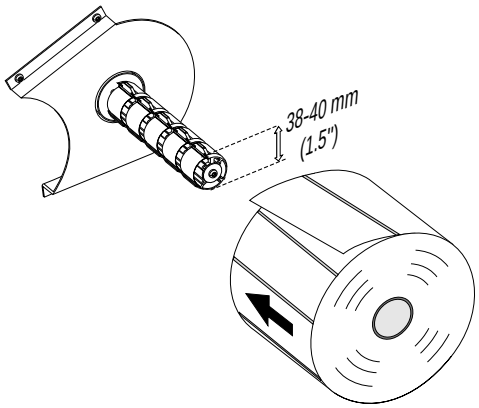
Pull out the green clip (1) on the backing paper take-up and dispose of all wound-up backing paper (2).

4



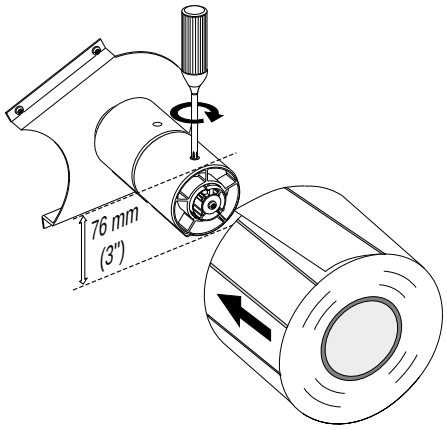
Remove the empty paper core, if any.

5



Fit a new label roll on the paper supply spool and push the roll inwards as far as it will go.

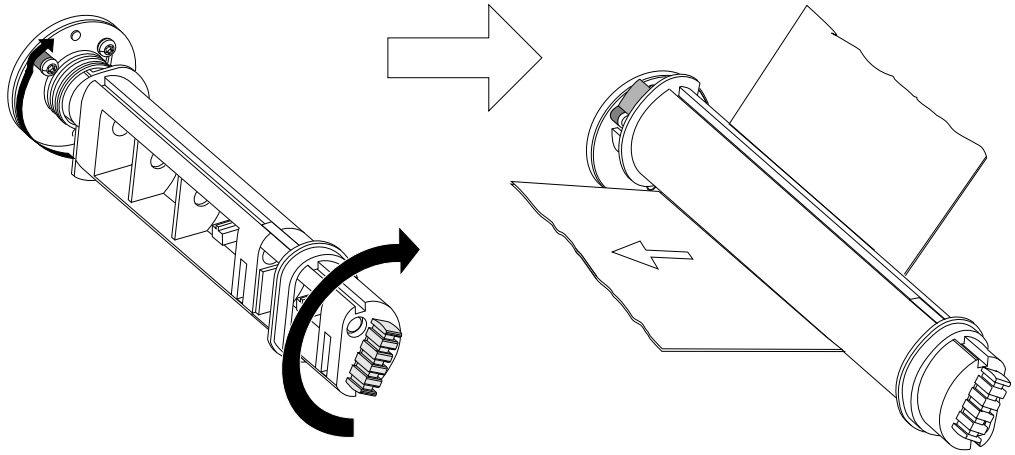
6



In case of label roll with a 76.2 mm (3 inches) core, first fit the two adapters on the paper supply spool.

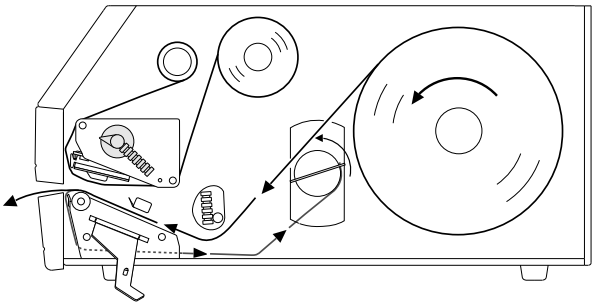
PAPER LOAD – PEEL OFF, cont'd.

7



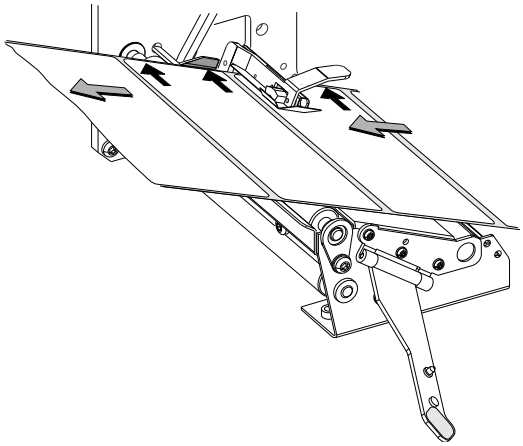
Rotate the label slack absorber 180˚ clockwise to open position (snap-lock). Then thread the label web underneath the slack absorber and under the guide plate of the label stop sensor.

8



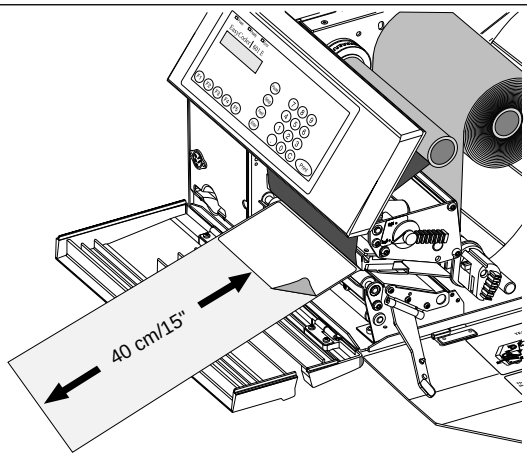
This diagram shows the path of the label web and the backing paper.

9



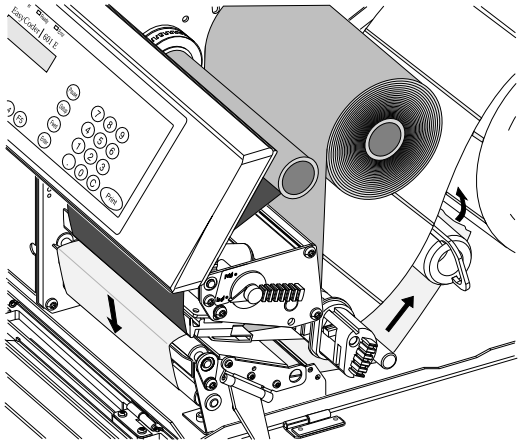
Push the label web inwards as far as it will go.

10



Pull out approx. 40 cm (15") of label web and remove the labels from the backing paper.

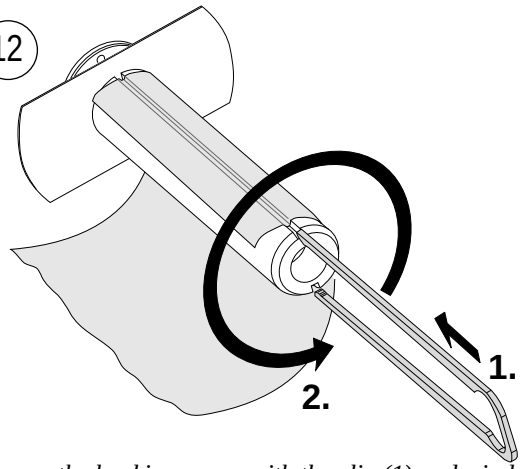
11



Thread the backing paper around the print roller and dispenser edge and rearwards under the print unit.

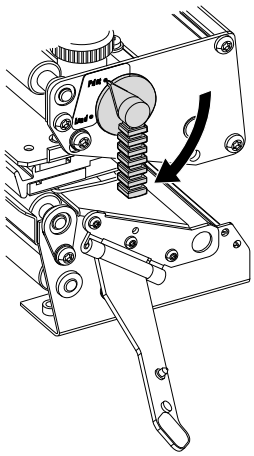
PAPER LOAD – PEEL OFF, cont'd.

12



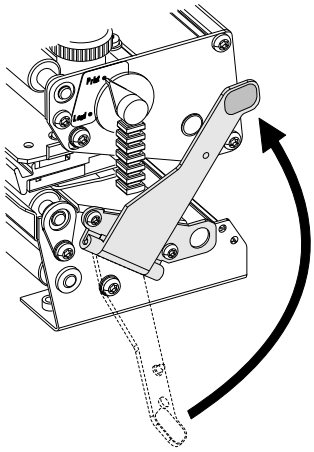
Secure the backing paper with the clip (1) and wind it up on the take-up spool so the web becomes tight (2).

13



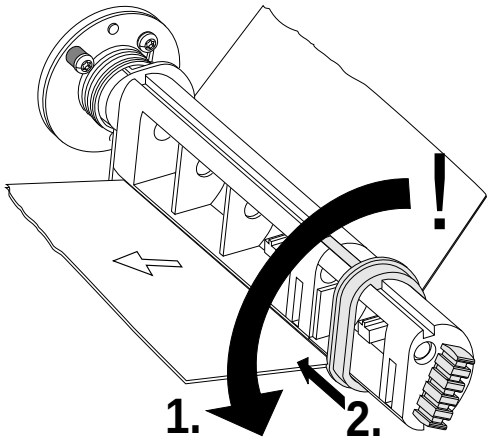
Turn the printhead lift knob to "Print" position.

14



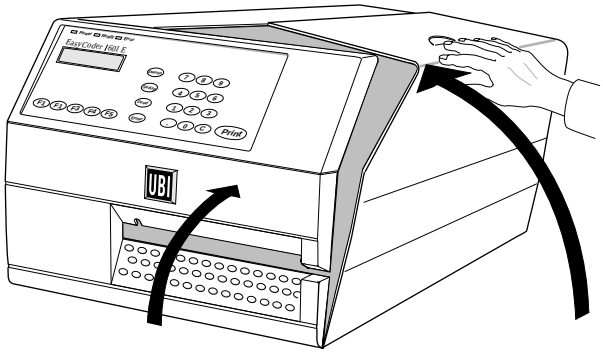
Return the locking handle to closed position.

15



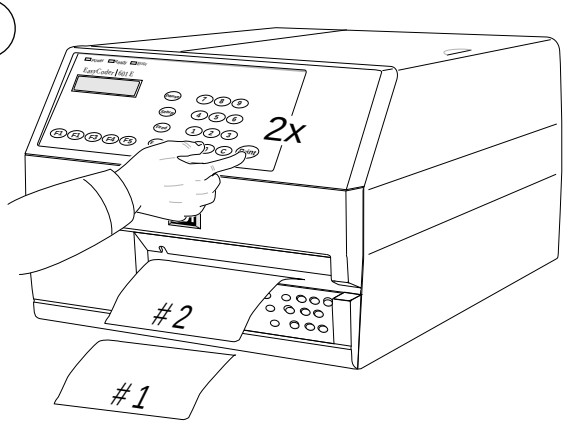
Release the slack absorber (1). Adjust the green guide ring so the paper is guided with a minimum of play (2).

16



Close the front and side doors.

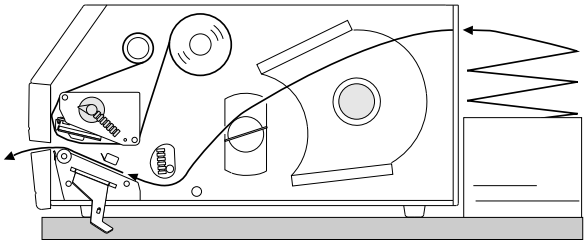
17



*Feed out two blank labels by pressing the <**Print**> key twice.*

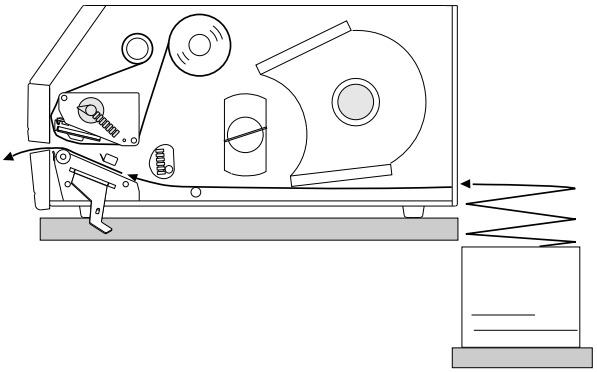
PAPER LOAD – EXTERNAL PAPER SUPPLY

1



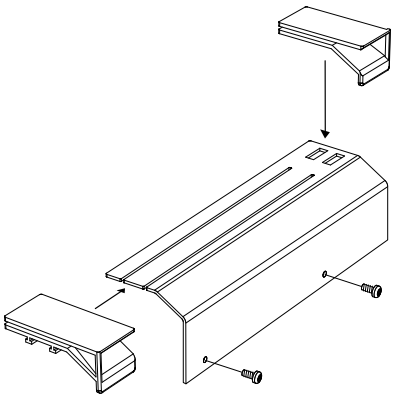
The printer can be supplied with paper from e.g. an external label roll or a box of fan-fold tickets via the upper or lower slot in the rear plate.

2



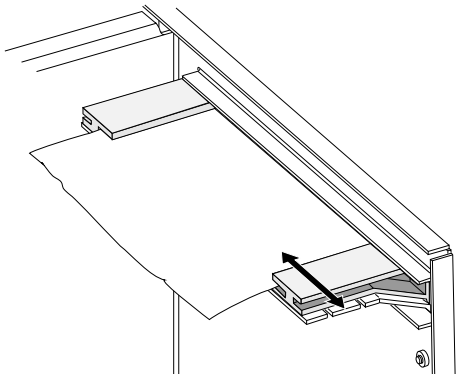
The lower intake slot is preferred when the supply is placed lower than the printer.

3



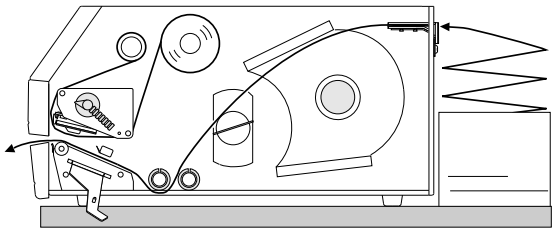
As an option, the printer can be fitted with a set of fan-fold guides in either intake slot.

4



The outer guide is adjustable for different paper widths.

5

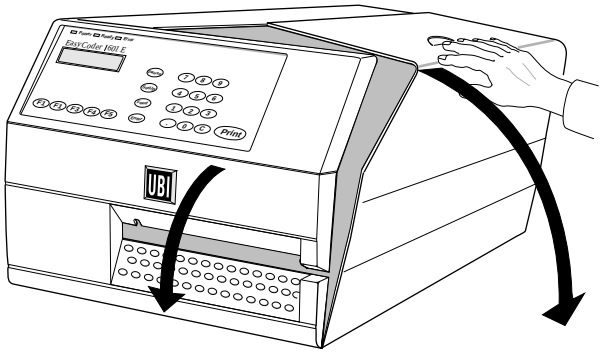


The fan-fold guide can be supplemented with an additional guide shaft which replaces the label slack absorber. Thread the paper as illustrated from either intake slot.

When an external paper supply is used, take precautions to protect the paper stock from sand, grit and other hard particles, that may damage the printhead!

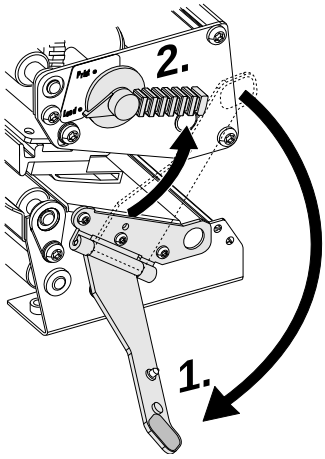
RIBBON LOAD

1



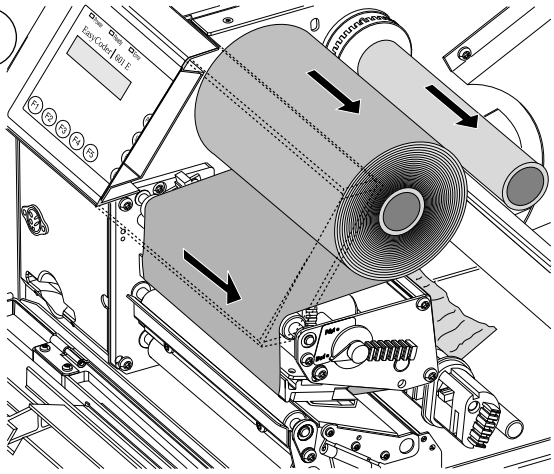
Remove the front and right-hand doors.

2



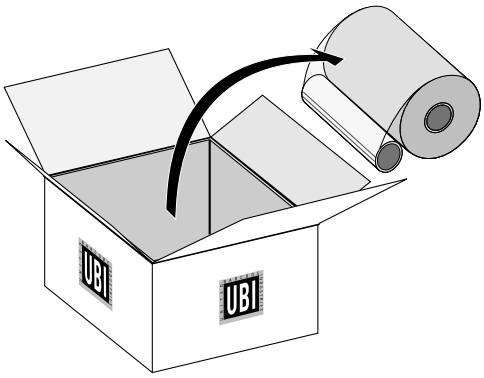
Fold the locking handle downward/outward (1).
Then turn the printhead lift knob to "Load" position (2).

3



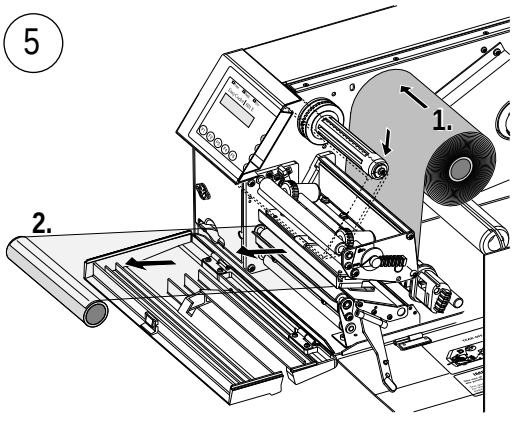
Pull out the used-up ribbon and the empty ribbon core.

4



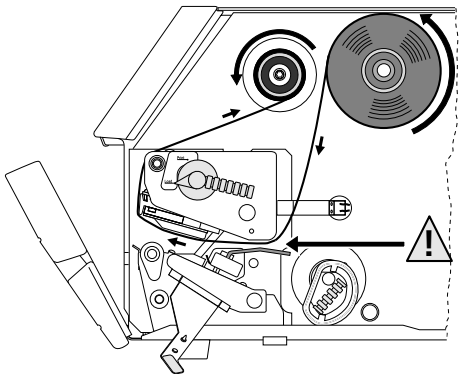
Unpack a roll of original UBI transfer ribbon.
The use of any thermal transfer ribbon, other than those supplied by UBI, will invalidate the printhead warranty.

5



Press the ribbon roll onto the ribbon supply spool (1) and thread the ribbon under the upper part of the print unit. Pull out approx. 20 cm (8") of ribbon (2).

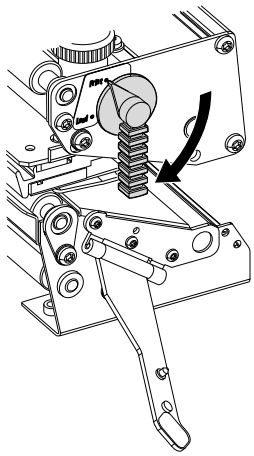
6



*Be careful to thread the ribbon **above** the handle of the label stop sensor! The ribbon must be fitted so the spools rotate counter-clockwise, as illustrated above.*

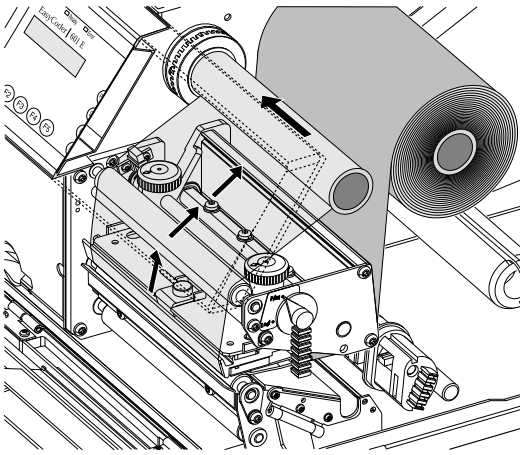
RIBBON LOAD, cont'd.

7



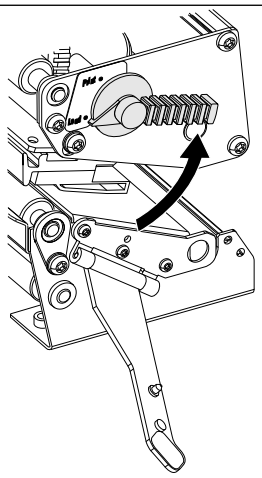
Without releasing the ribbon, turn the printhead lift knob to "Print" position so as to lock the ribbon.

8



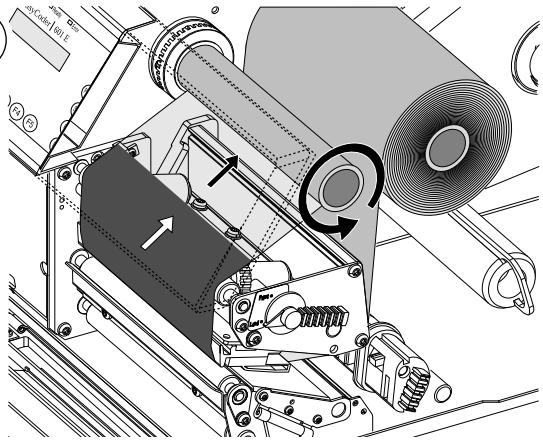
Press the paper core at the front end of the ribbon onto the take-up spool.

9



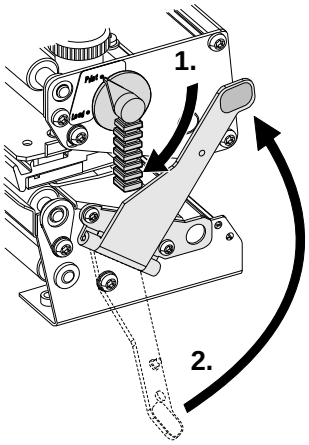
Turn the printhead lift knob to "Load" position.

10



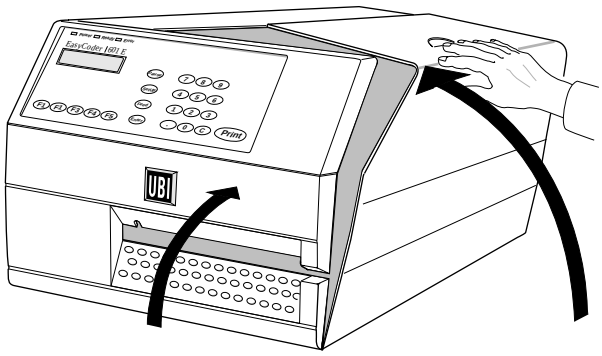
Wind up the ribbon until all of the transparent part has passed the printhead and the ribbon becomes tight.

11



Turn the printhead lift knob to "Print" position (1) and return the locking handle to closed position (2).

12



Close the front and side doors.

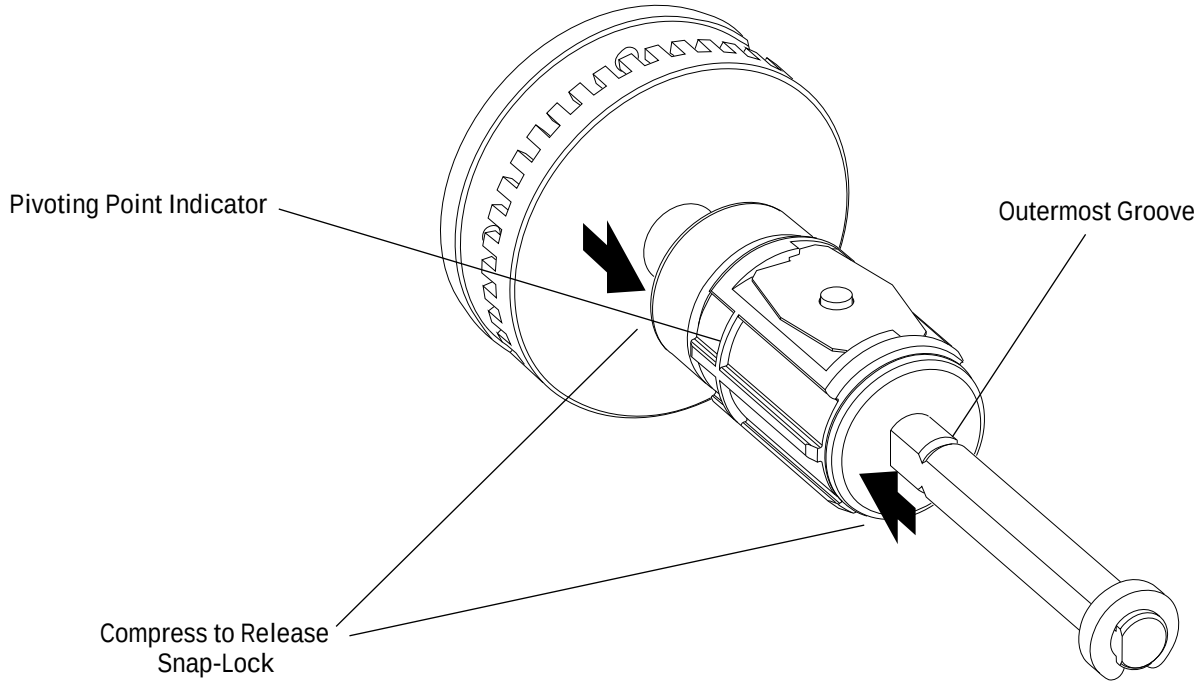
RIBBON WIDTH ADJUSTMENT

The *EasyCoder 601 E* printer is fitted with a pivoting ribbon supply spool intended to help avoiding ribbon wrinkling. The spool can be moved sideways along the shaft, so as to place the pivoting point at the centre of the ribbon path.

To move the spool, compress it and move it between the six grooves in the shaft according to the table below:

Groove No.	1	2	3	4	5	6
Position	Inner	⇒	⇒	⇒	⇒	Outer
Ribbon width (mm)	55	88	110	130	154	166
Ribbon width (inch)	2.28	3.47	4.33	5.12	6.07	6.54

Make sure the snap-lock has hit a groove by trying to move the spool without compressing it.

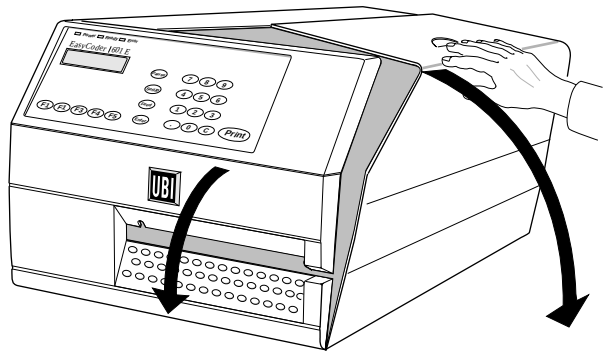


PRINTHEAD CLEANING

Cleaning of the printhead on a regular basis, preferably in connection with each ribbon or paper reload, is important for the life of the printhead and for the printout quality. Below is a description on how to clean the printhead by means of Cleaning Cards. If additional cleaning is required, e.g. for removing adhesive residue from the print roller or dispenser edge, use a cotton swab moistened with isopropyl alcohol.

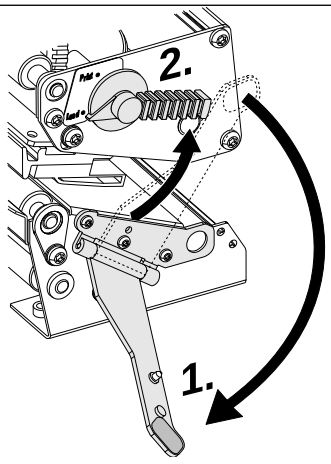
Caution:
Isopropyl alcohol [$(CH_3)_2CHOH$; CAS 67-63-0] is a highly flammable, moderately toxic and mildly irritating substance.

1



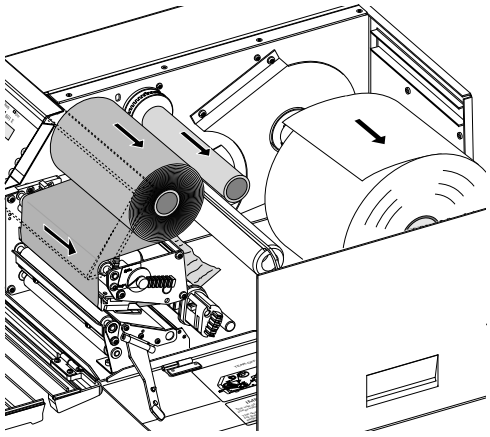
Open the front and right-hand doors.

2



Fold the locking handle downward/outward (1). Then turn the printhead lift knob to "Load" position (2)

3



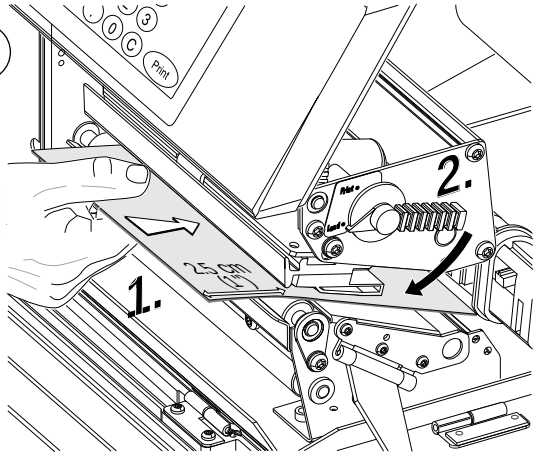
Remove the transfer ribbon and paper supplies.

4

Open the Cleaning Card pouch. The cleaning card contains isopropyl alcohol, see "Caution" above.

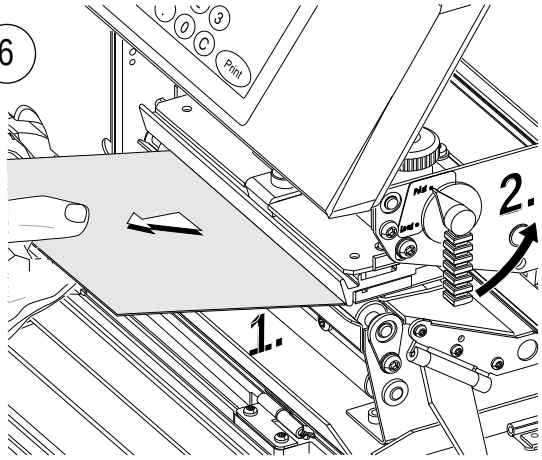
PRINTHEAD CLEANING, cont'd.

5



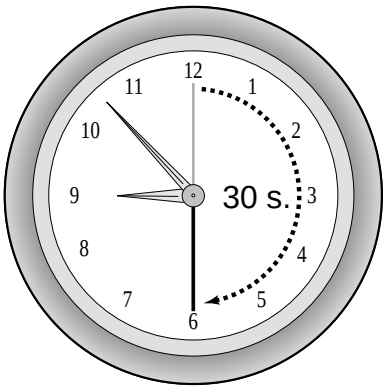
Insert most of the cleaning card under the printhead (1). Turn the printhead lift knob to "Print" position (2).

6



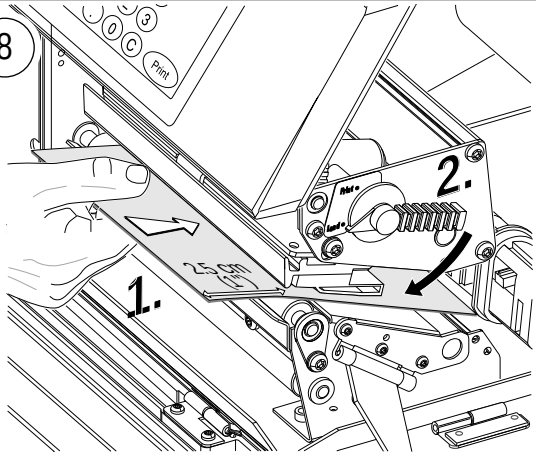
Pull out the cleaning card (1) and turn the printhead lift knob to "Load" position (2).

7



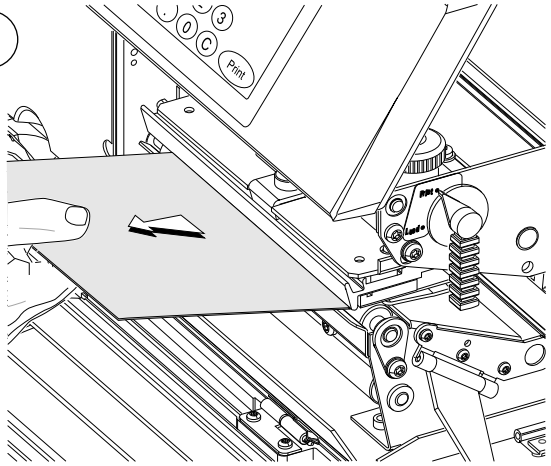
Wait for approx. 30 seconds.

8



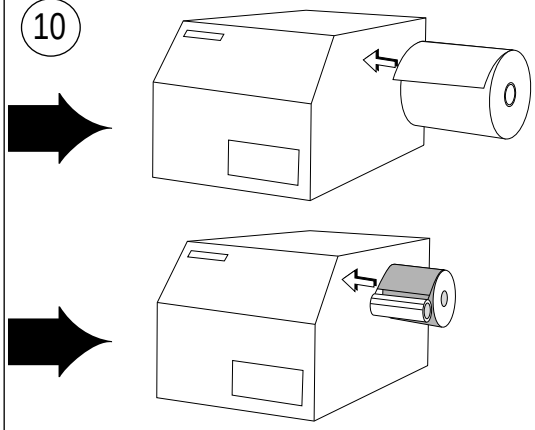
Insert the cleaning card under the printhead again (1). Turn the printhead lift knob to "Print" position (2).

9



Pull out the cleaning card. Repeat if necessary.

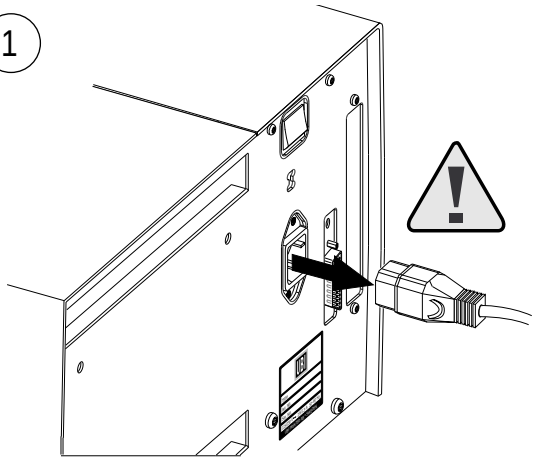
10



Allow the cleaned part to dry before loading the printer with paper and thermal transfer ribbon.

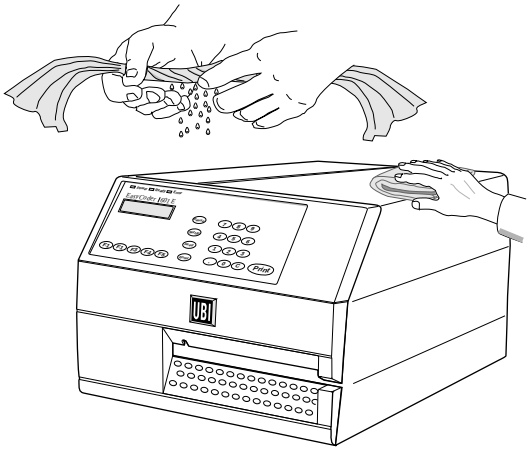
EXTERNAL CLEANING

1



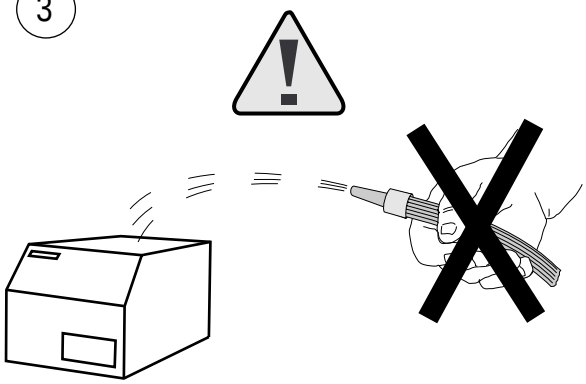
Always remove the power cord before cleaning!

2



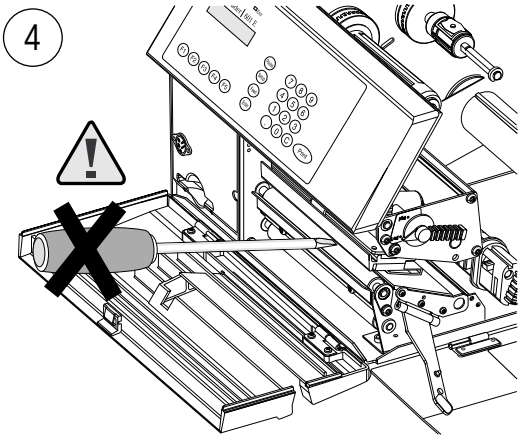
Wipe external surface with a soft cloth moistened with water and, if necessary, a mild detergent.

3



Never spray the printer. Protect the printer from water when cleaning the premises.

4

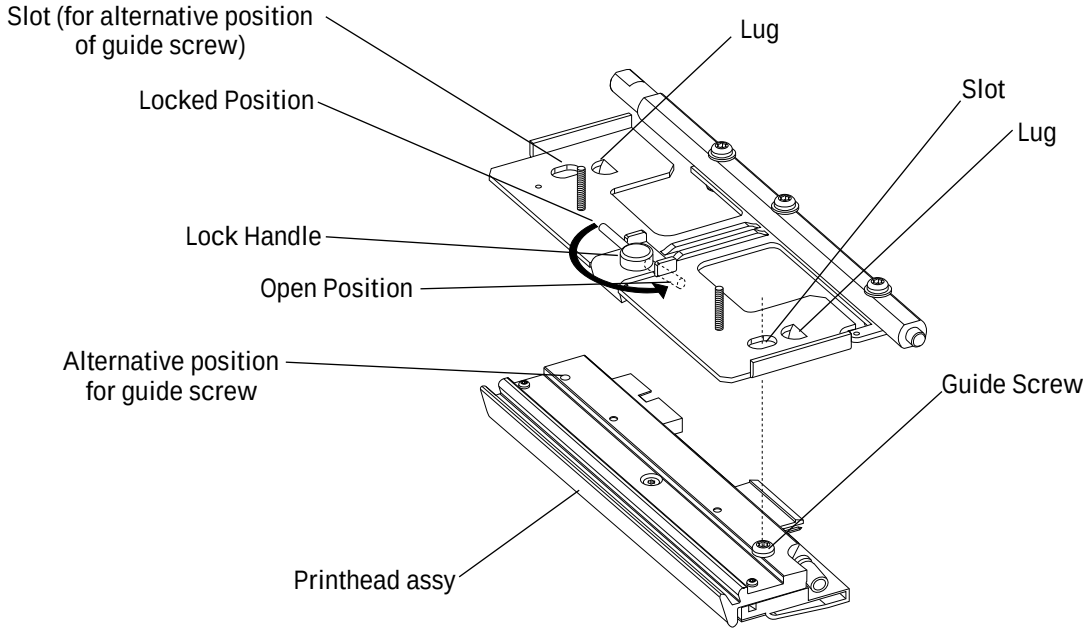


Never use any sharp tools for removing stuck labels. The printhead and the print roller are easily damaged.

PRINTHEAD REPLACEMENT

The quick-mount thermal printhead is easy to replace:

- Turn off the printer.
- Open the front and right-hand doors.
- Lift the printhead and remove the paper and ribbon stocks.
- Turn the printhead lock handle counter-clockwise to *open* position, see illustration.
- Remove the printhead assy carefully as far as the cables allow.
- Remove the two printhead cables by pulling at the connectors.
- If you want to change the lateral position of the printhead, move the #T20 Torx screw to its alternative position.
- Connect the two cables to the printhead.
- Fit the replacement printhead assy back into the bracket so the guide screw fits into its slot and the rear end of the assy is held by the two lugs.
- Turn the locking handle clockwise to *locked* position.
- Load paper and transfer ribbon. Then lower the printhead.
- Turn on the power. At power-up, the printer will automatically reset itself to the characteristics of the printhead in regard of head resistance and density.
- Close the front and right-hand door and the printer is ready for operation.



TROUBLE SHOOTING

The list below is intended to help the operator to correct possible printout troubles or flaws in printout quality, and to decide when assistance from the Service dept. of the nearest *UBI* distributor is required. Note that most problems are due to operating errors or normal wear of the printhead.

Symptom	Possible Cause	Remedy	Refer to
Overall weak printout	Wrong Paper type setup Low Contrast setup Printhead pressure too low Worn printhead Wrong printhead voltage	Change setup Change setup Adjust both knobs Replace printhead Replace CPU board	Technical Manual Technical Manual Technical Manual User's Manual ✎ Call Service
Printout weaker on one side	Uneven printhead pressure	Adjust outer knob	Technical Manual
Weak spots	Foreign particles on paper/ribbon Paper/ribbon don't match Poor paper or ribbon quality Worn printhead Worn pressing roller	Clean Use other media Use other media Replace printhead Check/replace	n.a. Technical Manual Technical Manual Technical Manual ✎ Call Service
Overall dark printout	Wrong Paper Type setup Too high Contrast setup value Printhead pressure too high Wrong printhead voltage	Change setup Change setup Adjust both knobs Replace CPU board	Technical Manual Technical Manual Technical Manual ✎ Call Service
Excessive bleeding	Wrong Paper Type setup Contrast setup value too high Printhead pressure too high Faulty energy control	Change setup Change setup Adjust both knobs Replace CPU board	Technical Manual Technical Manual Technical Manual ✎ Call Service
Transfer ribbon breaks	Ribbon fitted around label stop sensor Wrong Paper Type setup Ribbon unwind unit stuck Bad energy control	Reload ribbon Change setup Adjust Check CPU board	User's Manual Technical Manual ✎ Call Service ✎ Call Service
White parts at transfer printing	Transfer ribbon wrinkled	Adjust	See next paragraph
Transfer ribbon wrinkles	Incorrect paper guide ring adjustment Ribbon obstructed by printhead cable Too strong printhead pressure	Adjust Clear Adjust both knobs	User's Manual n.a. Technical Manual
Dark lines along paper web	Foreign objects on printhead	Clean printhead	User's Manual
White lines along paper web	Printhead dirty Missing dots on printhead	Clean printhead Replace printhead	User's Manual User's Manual
Large part of dot line missing	Wrong X-start or Width setup Failing printhead Failing strobe signal	Change setup Replace printhead Check CPU-board	Technical Manual User's Manual ✎ Call Service
Last part of label missing	Too small image buffer	Increase buffer	Technical Manual
Printout missing along inner edge	Bad paper alignment X-start setup value too low	Adjust Increase	User's Manual Technical Manual

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